

GEARBOX FOR MOTOR VEHICLES

Abstract

Method and arrangement for providing a range gearbox with a planetary gear (1) for a motor vehicle that is configured to be connected to the output side of a basic gearbox. The ring gear (18) of the planetary gear is axially displaceable. The ring gear (18) can alternatively engage coupling rings (10, 16). A synchronizing means (15) is intended to synchronize the rotational speed difference between the ring gear (18) and one or other coupling ring (10, 16). The synchronizing means (15) and the coupling ring (16) are arranged coaxially outside the ring gear (18). A second means (25) for engaging the coupling ring (16) and a third means (25, 25b) for driving said synchronizing means (15) are arranged on the radially external side of the ring gear (18). The coupling ring (16) is arranged between the synchronizing means (15) and the first means (27).